

PATENT CLAIMS:

1 – 4 (canceled)

5. (new) A steam power plant, comprising:

a steam turbine having a first turbine stage and a second turbine stage;

a steam generator;

a firing device arranged downstream of the steam generator and upstream of the steam turbine as seen in the direction of a flow of steam; and

a combustion chamber associated with the firing device such that and the flow of steam can be heated in the combustion chamber by being mixed with a hot gas that is generated in the combustion chamber.

6. (new) The steam power plant as claimed in claim 5, wherein the firing device is fueled by methane.

7. (new) The steam power plant as claimed in claim 5, wherein a firing device is arranged downstream of the first turbine stage and upstream of the second turbine stage and the flow of steam is heated in a combustion chamber of the firing device by being mixed with a hot gas that is generated in the combustion chamber.

8. (new) The steam power plant as claimed in claim 5, wherein an oxygen-containing gas, or air, is fed to the firing device in order to generate a combustion atmosphere in the combustion chamber.

9. (new) The steam power plant as claimed in claim 5, wherein an oxygen-containing gas, and air, is fed to the firing device in order to generate a combustion atmosphere in the combustion chamber.

10. (new) The steam power plant as claimed in claim 8, wherein an oxygen-containing gas is pure oxygen.

11. (new) The steam power plant as claimed in claim 5, wherein combustion products produced are removed from the flow of steam by a condenser connected downstream of the steam turbine.